

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/06193A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12N9/12 C07K16/40 C12P21/00 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N C07K C12P G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	HILL MICHELLE M ET AL: "Identification of a plasma membrane raft-associated PKB Ser473 kinase activity that is distinct from ILK and PDK1." CURRENT BIOLOGY, vol. 12, no. 14, 23 July 2002 (2002-07-23), pages 1251-1255, XP002255498 July 23, 2002. ISSN: 0960-9822 the whole document ---	1-14 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

26 September 2003

Date of mailing of the international search report

06.10.03

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB/03/06193

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RANE MADHAVI J ET AL: "p38 kinase-dependent MAPKAPK-2 activation functions as 3-phosphoinositide-dependent kinase-2 for Akt in human neutrophils." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 276, no. 5, 2 February 2001 (2001-02-02), pages 3517-3523, XP002255499 ISSN: 0021-9258 abstract page 3517, right-hand column, line 30 - line 32 page 3518, left-hand column, line 1 - line 7 page 3520, right-hand column, paragraph 2 page 3521, right-hand column, line 5 - line 19 page 3522, right-hand column, line 6 -page 3523, Left-hand column, line 2	I-14
X	WO 97 22360 A (MEDICAL RES COUNCIL ;UNIV DUNDEE (GB); ALESSI DARIO (GB); COHEN PH) 26 June 1997 (1997-06-26) abstract page 7, line 21 - line 24 example 3	I-14
X	BALENDRAN A ET AL: "PKD1 ACQUIRES PDK2 ACTIVITY IN THE PRESENCE OF A SYNTHETIC PEPTIDE DERIVED FROM THE CARBOXYL TERMINUS OF PRK2" CURRENT BIOLOGY, CURRENT SCIENCE, GB, vol. 9, no. 8, 1999, pages 393-404, XP000925908 ISSN: 0960-9822 cited in the application abstract page 394, left-hand column, line 25 - line 29 page 395, right-hand column, line 1 - line 6 page 398, left-hand column, line 1 - line 3 page 399, right-hand column, paragraph 2 -page 400, paragraph 1	I-14
X	WO 00 56864 A (BALENDRAN ANUDHARAN ;UNIV DUNDEE (GB); ALESSI DARIO (GB); CURRIE R) 28 September 2000 (2000-09-28) the whole document	I-14
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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/06193

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PERSAD S ET AL: "Regulation of protein kinase B/Akt-serine 473 phosphorylation by integrin-linked kinase: critical roles for kinase activity and amino acids arginine 211 and serine 343." THE JOURNAL OF BIOLOGICAL CHEMISTRY. UNITED STATES 20 JUL 2001, vol. 276, no. 29, 20 July 2001 (2001-07-20), pages 27462-27469, XP002255483 ISSN: 0021-9258 abstract page 27463, left-hand column, line 31 - line 39 page 27468 -page 27469 ---	1-14
A	BRAZIL D P ET AL: "Ten years of protein kinase B signalling: a hard Akt to follow" TIBS TRENDS IN BIOCHEMICAL SCIENCES, ELSEVIER PUBLICATION, CAMBRIDGE, EN, vol. 26, no. 11, 1 November 2001 (2001-11-01), pages 657-664, XP004326486 ISSN: 0968-0004 cited in the application the whole document	1-14
T	TROUSSARD ARAMELLE A ET AL: "Conditional knock-out of integrin-linked kinase demonstrates an essential role in protein kinase B/Akt activation." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 25, 20 June 2003 (2003-06-20), pages 22374-22378, XP002255500 ISSN: 0021-9258 the whole document -----	

# INTERNATIONAL SEARCH REPORT

Int'l application No.  
PCT/EP 03/06193

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: **15-22** because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International Application No  
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Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9722360	A	26-06-1997	AU 1200497 A CA 2241080 A1 EP 0868195 A2 WO 9722360 A2 JP 2000502097 T US 2002065221 A1	14-07-1997 26-06-1997 07-10-1998 26-06-1997 22-02-2000 30-05-2002
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WO 0056864	A	28-09-2000	EP 1165761 A2 WO 0056864 A2 JP 2002539780 T	02-01-2002 28-09-2000 26-11-2002
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